Notebook Series -- Notebooks by Edison
Notebook, N-20-12-04

This notebook was used by Edison in December 1920 for notes relating primarily to the composition of the wax masters used in the manufacture of disc records. Included are entries pertaining to various wax preparations. At the end of the book are two drawings of disc record labels. The pages are unnumbered. Only 18 pages have been used.

Dec 4 1920

Master Wax - Not affected by acid of bath -

Paraffine + Palmitate Alumina too soft, Not free of dish

Ditto Ceresin Not free of dish

With Candellana it gets softer the more palmitate of Alumina you put in with the most it cuts hard + slightly breaks but has a viscous feel - Dont come free of dish

Reg wax. get 2 or 3 doses of palmitate of in -

Candallana itself seems to be hard enough but its more brittle than Reg Wax - I will try a softener to stop brittleness

Our Reg wax will take more Stearic + Cut OK This should make more acid proof

Our Reg wax will take Considerable Palmitate Alumen + Cut OK This should make more acid proof.

Bayberry wax is dry not slightest viscosity not brittle it might work alone + give a very sensitive wax. altho it is not as hard as Reg wax or Candellena but Cuts deep no chipping, polished surface,

12 Hours not attacked in Cu Sol baths
Its Cold this in Lab + No 4
dont Cut deep enough wants
more Ceresin - if Cold -

Candellena Some Ceresin -
Could not track so deep, but chunk
it roll's more sensitive + less hard
to Cut 2nd dose —
The 4th Dose cuts deeper without
Chipping This more resembles
Regular — It is still very hard
PROMISING = Work up by
weighing — Try perfume, Bunny

Candellena —
1 Dose Ceresin
2 " "
3 " "
4 " "

shrunk very little - nearly flat Top — runs up on sides

shrunk a little when Cold Touch Edge with Knife Cracks away in part

Cant Cut as deep as reg + Cut not as polished - fair —

Phenomenon

Bayberry wax has an enormous effect on Candellera
1st Dose makes a tough, deep cutting bending wax
far more effect than Cerusin
found all cracked in dish —
Some chemical change probably
Acts like Alcanic on Rosin

Candellera

1 Dose Bayberry
2 " "
3 " "
4 " "

Both bottle pretty flat
Rumour on cider —

Bayberry

Both bottle —

1 = Candellera "
2 "
3 "
4 "
NG

Poor — 1st 3 white wrinkled up + NG — 4 white + cuts like soap NG

Inate this morning, rather cold in Laboratory + Heat 104 Cuts good — not viscous or flex
The 104 if kept cold might be very sensitive to Razor knife — Could have a Water jacketed Razor holder —
Cant cut as deep as Rag

No 1 – Cracked across – free of dusk Cuts powdery no depth

No 2 not cracked free, Cuts powdery

No 3 not cracked free, Cuts powdery but not so bad

No 4 – about same –

This shows that considerable Koppers Can be used in Candellero without changing its hardness or cheapening of Cheaper

Note →

Bayberry
Palmitate Al
" Not made
"
4 "

Candelleria

1 Dose Koppers Resin
Cracked across – Cumerone

2 " "

3 " " Dissolved good

4 " " Works fairly well in Making

Think Low Melting point Wax Compositions will give us trouble in Summer
This is low M.P. Combination –

All very brittle & powdery NG

Koppers Cumerone Resin

1 Dose Candelleria

2 " "

3 " "

Spongy NG.

4 " This one " may be OK
flat –

Works Gas lots gas & frothy – sluggish – probably wants more cooking – May be better in Koppers

not allowed by Electrolysis

Candelleria + 150 grams
3. Dose Parafin 15 gms
4 " " 20
5 " " 25
6 " " 30

Candelleria 150 grms
3 Dose Cereain
4 "
5 "
6 "

I note, that Reg wax
1.25 grms that addition
of — 5 grms of stearic
makes it very much less
attacked by acid of bath

The same thing occurs
with greater range
when palmitate aluminum
is added —

If too much stearic
added it shows shrinkage
etc — wavy

Note 4 grms Not
so good —

Note →

? Affected by Electrolyte

150 grms Req Wax
& 2 grms Vaseline 15
hours in Req plating
Solution — just barely
Whitened —
Cut is OK — & hard

1509 Candellerin

1 grm Castor Oil — no change

2 " "

4 PROMISING Cuts not so deep as Req wax but good

8 Too Soapy, tough —

Think 4½ @ 5 grms Req
good

150 Candellerria

Between 2 & 4 grms Castor Oil is OK if stand acid test

8 grms dull cut

Effected by Electrolyte.

150 gr Reg Wax 8 to 12 grms Castor it will stand, see if attacked acid

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Effected by Electrolyte

150 Reg Wax

4 grms Balsam Copaiba ok. 8 soapy cut. see if stands acid

Edison
Palestrina
Fox Trot - Sodoro
Band —
126 000
80591

PALESTRINA
Fox-Trot
EDISON
Sodoro Band
126000

Master Female

GIN NIG

male

GIN NIG female

Record